

WHAT IS CLAIMED IS:

1. An internal combustion engine comprising:
an electronic engine control system; and
a fueling system governed by an electronic P-I-D governor in the electronic engine control system;

wherein the P-I-D governor provides a data output having a proportional component, an integral component, and a derivative component, each of which is derived from closed-loop processing of engine speed error data; and

the P-I-D governor further comprises a function that provides a further component to the data output, that further component comprising a data value that is based on engine temperature and on elapsed engine running time since the engine was last started.

2. An engine as set forth in Claim 1 wherein the function that provides the further component to the data output of the P-I-D governor comprises a map containing data values each of which is correlated with data values of temperature and time.

3. An engine as set forth in Claim 2 wherein the data values for time are derived from a timer function that begins timing upon the engine control system changing from an engine cranking mode to an engine running mode.

4. An engine as set forth in Claim 1 including a switch function for selectively allowing and disallowing the further component to the data output.

5. An electronic engine control system for an internal combustion engine that has a fueling system for fueling the engine, the control system comprising:

an electronic P-I-D governor that provides a data output having a proportional component, an integral component, and a derivative component, each of which is derived from closed-loop processing of engine speed error data; and

a function that provides a further component to the data output of the P-I-D governor, that further component comprising a data value that is based on engine temperature and on elapsed engine running time since the engine was last started.

6. An engine control system as set forth in Claim 5 wherein the function that provides the further component to the data output of the P-I-D governor comprises a map containing data values each of which is correlated with data values of temperature and time.

7. An engine control system as set forth in Claim 6 wherein the data values for time are derived from a timer function that begins timing upon the engine control system changing from an engine cranking mode to an engine running mode.

8. An engine control system as set forth in Claim 5 including a switch function for selectively allowing and disallowing the further component to the data output.

9. A method of governing an internal combustion engine that has an electronic engine control system and a fueling system for fueling the engine under control of the engine control system, the method comprising:

closed-loop processing engine speed error data in an electronic P-I-D governor of the engine control system to provide a data output having a first component that is a proportional function of the error data, a second component that is an integral function of the error data, and a third component that is a derivative function of the error data; and

processing engine temperature data and engine running time data corresponding to elapsed engine running time since the engine was last started to provide a further component to the data output of the P-I-D governor.

10. A method as set forth in Claim 9 wherein the step of processing engine temperature data and engine running time data corresponding to elapsed engine running time since the engine was last started comprises processing the engine temperature data and the engine running time data according to a map containing data values each of which is correlated with data values of temperature and time.

11. A method as set forth in Claim 10 including the step of deriving the data values for engine running time by starting a timer function upon the

engine control system changing from an engine cranking mode to an engine running mode.

12. A method as set forth in Claim 9 including the step of selectively allowing and disallowing the further component to the data output according to a data value that selectively enables and unenables the further component to the data output of the P-I-D governor.